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## RAW SEQUENCE LISTING

DATE: 11/09/2000

PATENT APPLICATION: US/09/695,795

TIME: 11:41:58

Input Set : A:\JHU1650-2.ST25.txt

Output Set: N:\CRF3\11092000\I695795.raw

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3 <110> APPLICANT: JOHN HOPKINS UNIVERSITY SCHOOL OF MEDICINE
4   Jeffrey, Rothstein
5   Jackson, Mandy
6   Lin, Glenn
7   Law, Robert
8   Orlov, Irina
10 <120> TITLE OF INVENTION: GLUTAMATE TRANSPORTER ASSOCIATED PROTEINS AND METHODS OF USE THEREOF
12 <130> FILE REFERENCE: JHU1650-2
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/695,795
C--> 14 <141> CURRENT FILING DATE: 2000-10-23
14 <150> PRIOR APPLICATION NUMBER: 60/161,007
15 <151> PRIOR FILING DATE: 1999-10-23
17 <160> NUMBER OF SEQ ID NOS: 22
19 <170> SOFTWARE: PatentIn version 3.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 7240
23 <212> TYPE: DNA
24 <213> ORGANISM: Rattus
26 <220> FEATURE:
27 <221> NAME/KEY: CDS
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33 1 5 10 15
35 ggc cag tac agt gac atc aac aac cgc tgg gac ctg ccc gac tca gat      96
36 Gly Gln Tyr Ser Asp Ile Asn Asn Arg Trp Asp Leu Pro Asp Ser Asp
37 20 25 30
39 tgg gac aat gac agc agt tca gcc cgc ctc ttt gag agg tcc aga att      144
40 Trp Asp Asn Asp Ser Ser Ser Ala Arg Leu Phe Glu Arg Ser Arg Ile
41 35 40 45
43 aag gcc ctg gca gat gag cga gaa gcc gtg cag aag aaa acc ttc acc      192
44 Lys Ala Leu Ala Asp Glu Arg Glu Ala Val Gln Lys Lys Thr Phe Thr
45 50 55 60
47 aag tgg gtg aac tcc cac ctg gcc cgg gtg aca tgc cgg gtg gga gac      240
48 Lys Trp Val Asn Ser His Leu Ala Arg Val Thr Cys Arg Val Gly Asp
49 65 70 75 80
51 ctg tac agc gac ctg cgg gac ggg cgc aac ctc ctg agg ctc ctg gag      288
52 Leu Tyr Ser Asp Leu Arg Asp Gly Arg Asn Leu Leu Arg Leu Leu Glu
53 85 90 95
55 gtg ctc tgg gga gag acc ctg cca aaa ccc acc aag ggc cgg atg cgg      336
56 Val Leu Ser Gly Glu Thr Leu Pro Lys Pro Thr Lys Gly Arg Met Arg
57 100 105 110
59 att cac tgc ctg gag aat glc gac aaa gca ctg cag ttc ctg aag gag      384
60 Ile His Cys Leu Glu Asn Val Asp Lys Ala Leu Gln Phe Leu Lys Glu
61 115 120 125
63 cag aag gtg cac ctg gaa aac atg ggc tcc cac gac att gtg gat ggg      432

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67	aac	cac	cgt	ctg	acc	ctt	ggg	cta	gtg	tgg	acc	atc	atc	ctc	cga	ttt	480
68	Asn	His	Arg	Leu	Thr	Leu	Gly	Leu	Val	Trp	Thr	Ile	Ile	Leu	Arg	Phe	
69	145					150					155					160	
71	cag	atc	caa	gac	atc	agt	gtg	gag	aca	gaa	gac	aac	aag	gag	aag	aag	528
72	Gln	Ile	Gln	Asp	Ile	Ser	Val	Glu	Thr	Glu	Asp	Asn	Lys	Glu	Lys	Lys	
73						165					170					175	
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76	Ser	Ala	Lys	Asp	Ala	Leu	Leu	Leu	Trp	Cys	Gln	Met	Lys	Thr	Ala	Gly	
77						180					185					190	
79	tat	ccc	aat	gtc	aat	gtg	cac	aac	ttt	acc	acc	agt	tgg	aga	gat	ggg	624
80	Tyr	Pro	Asn	Val	Asn	Val	His	Asn	Phe	Thr	Thr	Ser	Trp	Arg	Asp	Gly	
81			195					200						205			
83	ctg	gcc	ttt	aat	gcc	att	gtg	cac	aaa	cac	cgg	cca	gac	ctg	ttg	gat	672
84	Leu	Ala	Phe	Asn	Ala	Ile	Val	His	Lys	His	Arg	Pro	Asp	Leu	Leu	Asp	
85		210					215						220				
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88	Phe	Glu	Ser	Leu	Lys	Lys	Cys	Asn	Ala	His	Tyr	Asn	Leu	Gln	Asn	Ala	
89	225					230					235					240	
91	ttc	aat	ctg	gct	gaa	aag	gaa	ctt	ggc	ctg	acg	aag	ctc	ctg	gat	cct	768
92	Phe	Asn	Leu	Ala	Glu	Lys	Glu	Leu	Gly	Leu	Thr	Lys	Leu	Leu	Asp	Pro	
93						245					250					255	
95	gaa	gat	gtg	aac	gta	gac	caa	ccc	gat	gag	aag	tcc	atc	atc	acc	tac	816
96	Glu	Asp	Val	Asn	Val	Asp	Gln	Pro	Asp	Glu	Lys	Ser	Ile	Ile	Thr	Tyr	
97						260					265					270	
99	gtg	gcc	act	tac	tac	cac	tac	ttc	tcg	aag	atg	aag	gcc	ctg	gct	gtg	864
100	Val	Ala	Thr	Tyr	Tyr	His	Tyr	Phe	Ser	Lys	Met	Lys	Ala	Leu	Ala	Val	
101						275					280					285	
103	gaa	ggc	aaa	agg	att	ggc	aag	gtc	ctg	gac	cat	gcc	atg	gag	gca	gaa	912
104	Glu	Gly	Lys	Arg	Ile	Gly	Lys	Val	Leu	Asp	His	Ala	Met	Glu	Ala	Glu	
105						290					295					300	
107	cac	ctg	gta	gag	aaa	tat	gag	tcc	ctg	gcc	tct	gaa	ctg	ctg	cag	tgg	960
108	His	Leu	Val	Glu	Lys	Tyr	Glu	Ser	Leu	Ala	Ser	Glu	Leu	Leu	Gln	Trp	
109	305					310					315					320	
111	atc	gag	caa	acg	att	ggg	acc	ttc	aat	gac	cga	cag	ctg	gcc	aac	tcc	1008
112	Ile	Glu	Gln	Thr	Ile	Gly	Thr	Phe	Asn	Asp	Arg	Gln	Leu	Ala	Asn	Ser	
113						325					330					335	
115	ctg	agt	ggc	gtc	cag	aac	cag	ctg	cag	tct	ttc	aat	tcc	tac	cgc	acg	1056
116	Leu	Ser	Gly	Val	Gln	Asn	Gln	Leu	Gln	Ser	Phe	Asn	Ser	Tyr	Arg	Thr	
117						340					345					350	
119	gtg	gag	aag	cca	ccc	aag	ttc	aca	gag	aaa	ggg	aac	ttg	gag	gtg	ttg	1104
120	Val	Glu	Lys	Pro	Pro	Lys	Phe	Thr	Glu	Lys	Gly	Asn	Leu	Glu	Val	Leu	
121						355					360					365	
123	ctc	ttc	acc	atc	cag	agt	aag	ctg	cgg	gcc	aac	aac	cag	aaa	gtc	tac	1152
124	Leu	Phe	Thr	Ile	Gln	Ser	Lys	Leu	Arg	Ala	Asn	Asn	Gln	Lys	Val	Tyr	
125						370					375					380	
127	aca	cca	cgc	gaa	ggc	cgg	ctc	atc	tcg	gac	atc	aac	aag	gcc	tgg	gag	1200
128	Thr	Pro	Arg	Glu	Gly	Arg	Leu	Ile	Ser	Asp	Ile	Asn	Lys	Ala	Trp	Glu	

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132	Arg Leu Glu Lys Ala Glu His Glu Arg Glu Leu Ala Leu Arg Thr Glu							
133		405		410		415		
135	ctg atc cgc cag gag aag ctg gag caa ctg gct gct cgc ttc gac cgc	1296						
136	Leu Ile Arg Arg Glu Lys Leu Glu Gln Leu Ala Ala Arg Phe Asp Arg							
137		420		425		430		
139	aag gct gcc atg cgg gag acc tgg ctc agt gag aac cag cgc ctc gtc	1344						
140	Lys Ala Ala Met Arg Glu Thr Trp Leu Ser Glu Asn Gln Arg Leu Val							
141		435		440		445		
143	tcg cag gac aac ttt ggc ctg gag ctg gca gca gtg gag gca gca gtg	1392						
144	Ser Gln Asp Asn Phe Gly Leu Glu Leu Ala Val Glu Ala Ala Val							
145		450		455		460		
147	cgg aag cat gaa gcc att gag aca gac att gtg gcc tac agc ggc cgg	1440						
148	Arg Lys His Glu Ala Ile Glu Thr Asp Ile Val Ala Tyr Ser Gly Arg							
149	465		470		475		480	
151	gtg caa gcg gtg gac gcc gta gcc gca gaa ctg gcc gct gag cat tac	1488						
152	Val Gln Ala Val Asp Ala Val Ala Ala Glu Leu Ala Ala Glu His Tyr							
153		485		490		495		
155	cat gac att aag cgc att gcg gcg cgg cag aac aac gtg gcc cgc ctc	1536						
156	His Asp Ile Lys Arg Ile Ala Ala Arg Gln Asn Asn Val Ala Arg Leu							
157		500		505		510		
159	tgg gac ttc tta cga gag atg gtg gcc gcc cgc cgt gag cgc ctc ctt	1584						
160	Trp Asp Phe Leu Arg Glu Met Val Ala Ala Arg Arg Glu Arg Leu Leu							
161		515		520		525		
163	ctc aac ctg gag ctg cag aag gtg ttt cag gac ctg ctc tac ctc atg	1632						
164	Leu Asn Leu Glu Leu Gln Lys Val Phe Gln Asp Leu Leu Tyr Leu Met							
165		530		535		540		
167	gac tgg atg gca gag atg aag ggc cgg ctg cag tct cag gac cta ggc	1680						
168	Asp Trp Met Ala Glu Met Lys Gly Arg Leu Gln Ser Gln Asp Leu Gly							
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171	aag cat ctg gct gga gtg gaa gat cta ctg caa cta cac gaa ctg gtg	1728						
172	Lys His Leu Ala Gly Val Glu Asp Leu Leu Gln Leu His Glu Leu Val							
173		565		570		575		
175	gag gcg gac att gca gtt cag gct gag agg gtg cga gcg gtc agc gcc	1776						
176	Glu Ala Asp Ile Ala Val Gln Ala Glu Arg Val Arg Ala Val Ser Ala							
177		580		585		590		
179	tct gcc ctg cgc ttc tgc gac cca ggg aaa gag tat aga cct tgc ggc	1824						
180	Ser Ala Leu Arg Phe Cys Asp Pro Gly Lys Glu Tyr Arg Pro Cys Gly							
181		595		600		605		
183	ccg cag cta gtg tca gag agg gta gcc act ctg gag cag agc tat gag	1872						
184	Pro Gln Leu Val Ser Glu Arg Val Ala Thr Leu Glu Gln Ser Tyr Glu							
185		610		615		620		
187	gcc ctg tgc gaa ttg gca gca act cga agg gcc cga ctg gaa gag tcc	1920						
188	Ala Leu Cys Glu Leu Ala Ala Thr Arg Arg Ala Arg Leu Glu Glu Ser							
189	625		630		635		640	
191	cgt cgt ctc tgg agg ttc ctc tgg gaa gtg ggt gag gcc gag gcc tgg	1968						
192	Arg Arg Leu Trp Arg Phe Leu Trp Glu Val Gly Glu Ala Glu Ala Trp							
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197				660					665					670			
199	ctg	act	ggt	gtc	ctc	cgc	ctg	ctc	aat	aaq	cac	aca	gcc	cta	cgg	ggt	2064
200	Leu	Thr	Gly	Val	Leu	Arg	Leu	Leu	Asn	Lys	His	Thr	Ala	Leu	Arg	Gly	
201			675					680					685				
203	gag	atg	agt	ggc	cgc	ctg	ggg	ccc	ctg	aag	ctc	acc	ctg	gaa	caa	ggt	2112
204	Glu	Met	Ser	Gly	Arg	Leu	Gly	Pro	Leu	Lys	Leu	Thr	Leu	Glu	Gln	Gly	
205		690					695					700					
207	cag	cag	tta	ggt	gcc	gag	ggc	cac	cct	gga	gct	aac	caa	gcc	tca	acc	2160
208	Gln	Gln	Leu	Val	Ala	Glu	Gly	His	Pro	Gly	Ala	Asn	Gln	Ala	Ser	Thr	
209	705				710						715					720	
211	cgt	gca	gca	gag	ctc	cag	gcc	cag	tgg	gag	cga	cta	gaa	gcc	ctg	gcc	2208
212	Arg	Ala	Ala	Glu	Leu	Gln	Ala	Gln	Trp	Glu	Arg	Leu	Glu	Ala	Leu	Ala	
213				725						730				735			
215	gag	gag	cga	gcc	cag	cgg	cta	gca	cag	gct	gcc	agc	ctc	tac	cag	ttc	2256
216	Glu	Glu	Arg	Ala	Gln	Arg	Leu	Ala	Gln	Ala	Ala	Ser	Leu	Tyr	Gln	Phe	
217			740					745					750				
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233				805					810					815			
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236	Leu	Ser	His	Thr	Pro	Glu	Val	Gln	Gly	Arg	Val	Pro	Thr	Leu	Glu	Gln	
237			820					825					830				
239	cac	tat	gag	gag	ctg	cag	gcc	cgg	gca	ggt	gag	cgt	gca	cga	gcc	ctg	2544
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243	gaa	gca	gcc	ctg	gcg	ttc	tat	acc	atg	ctc	agc	gag	gcc	ggg	gct	tgt	2592
244	Glu	Ala	Ala	Leu	Ala	Phe	Tyr	Thr	Met	Leu	Ser	Glu	Ala	Gly	Ala	Cys	
245		850				855						860					
247	ggg	ctc	tgg	gta	gag	gag	aag	gag	cag	tgg	ctc	aac	ggg	ctg	gcc	cta	2640
248	Gly	Leu	Trp	Val	Glu	Glu	Lys	Glu	Gln	Trp	Leu	Asn	Gly	Leu	Ala	Leu	
249	865				870					875				880			
251	cct	gag	cgc	ctg	gag	gac	ccg	gag	gtg	gtc	caa	cag	agg	ttt	gag	acc	2688
252	Pro	Glu	Arg	Leu	Glu	Asp	Pro	Glu	Val	Val	Gln	Gln	Arg	Phe	Glu	Thr	
253				885					890					895			
255	tta	gag	ccc	gaa	atg	aac	gcc	ctg	gct	gca	cgg	att	act	gct	gtc	agt	2736
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257			900					905						910			
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264	Ile	Ile	Gly	Thr	Gln	Glu	Gln	Leu	Asn	Gln	Arg	Trp	Gln	Gln	Phe	Arg	
265		930					935					940					
267	tcc	ctg	gca	ggt	ggc	aaa	aag	gca	gct	ctg	aca	tca	gcc	ctg	agc	atc	2880
268	Ser	Leu	Ala	Gly	Gly	Lys	Lys	Ala	Ala	Leu	Thr	Ser	Ala	Leu	Ser	Ile	
269	945				950					955					960		
271	cag	aat	tac	cac	cta	gag	tgc	aca	gag	acc	cag	gcc	tgg	atg	aga	gaa	2928
272	Gln	Asn	Tyr	His	Leu	Glu	Cys	Thr	Glu	Thr	Gln	Ala	Trp	Met	Arg	Glu	
273					965					970					975		
275	aag	acc	aag	gtc	att	gag	tct	acc	cag	gac	cta	ggc	aat	gat	cta	gct	2976
276	Lys	Thr	Lys	Val	Ile	Glu	Ser	Thr	Gln	Asp	Leu	Gly	Asn	Asp	Leu	Ala	
277			980					985					990				
279	ggt	gtg	ctg	gcc	ctg	cag	cgg	aag	ctg	gca	ggc	act	gag	aga	gat	ctg	3024
280	Gly	Val	Leu	Ala	Leu	Gln	Arg	Lys	Leu	Ala	Gly	Thr	Glu	Arg	Asp	Leu	
281			995				1000						1005				
283	gaa	gcc	atc	tct	gcc	cgg	gtg	ggt	gag	ctg	acc	caa	gag	gca	aat		3069
284	Glu	Ala	Ile	Ser	Ala	Arg	Val	Gly	Glu	Leu	Thr	Gln	Glu	Ala	Asn		
285		1010					1015					1020					
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288	Ala	Leu	Ala	Ala	Gly	His	Pro	Ala	Gln	Ala	Pro	Ala	Ile	Asn	Thr		
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293		1040					1045					1050					
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300	Asp	Phe	Leu	Arg	Ser	Leu	Asp	Asp	Phe	Gln	Ala	Trp	Leu	Gly	Arg		
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303	aca	cag	act	gct	gta	gcc	tct	gag	gaa	gga	cca	gcc	acc	ctt	cca		3294
304	Thr	Gln	Thr	Ala	Val	Ala	Ser	Glu	Glu	Gly	Pro	Ala	Thr	Leu	Pro		
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307	gag	gca	gaa	gcc	ctc	tta	gcc	cag	cat	gca	gct	ctg	cgg	gga	gag		3339
308	Glu	Ala	Glu	Ala	Leu	Leu	Ala	Gln	His	Ala	Ala	Leu	Arg	Gly	Glu		
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311	gtg	gag	aga	gcc	cag	agc	gag	tac	agc	cgc	ctc	agg	acc	ttg	ggc		3384
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316	Glu	Glu	Val	Thr	Arg	Asp	Gln	Ala	Asp	Pro	Gln	Cys	Leu	Phe	Leu		
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321		1145					1150					1155					
323	cgc	atg	tgg	gag	agc	cgg	caa	ggc	cgc	ttg	gcc	caa	gcc	cat	ggc		3519
324	Arg	Met	Trp	Glu	Ser	Arg	Gln	Gly	Arg	Leu	Ala	Gln	Ala	His	Gly		

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